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7,598,670B2 10/593,193 10/06/09 05/17/2005 9919 0553-0518

Respectfully Submitted,

Mark J. Marphy

Registration No. 34,225 Date: December 11, 2009

COOK ALEX Ltd. 200 West Adams Street Suite 2850 Chicago, Illinois 60606 (312) 236-8500

Customer No: 26568



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# (12) United States Patent

Kumaki et al.

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## (54) LIGHT EMITTING ELEMENT AND LIGHT EMITTING DEVICE

(75) Inventors: Daisuke Kumaki, Nigata (JP); Hisao

Ikeda, Kanagawa (JP); Hiroko Abe, Tokyo (JP); Satoshi Seo, Kanagawa (JP)

(73) Assignee: Semiconductor Energy Laboratory

Co., Ltd. (JP)

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(58) Field of Classification Search ........... 313/500-512; 428/690, 917

See application file for complete search history.

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Primary Examiner—Nimeshkumar D. Patel Assistant Examiner—Mary Ellen Bowman (74) Attorney, Agent, or Firm—Cook Alex Ltd.

### (57) ABSTRACT

A light emitting element of the invention includes n pieces of light emitting layers (n is a natural number) between first and second electrodes. A first layer and a second layer are provided between the  $m^{th}$  light emitting layer (m is a natural number of  $1 \le m \le n$ ) and the  $m + 1^{th}$  light emitting layer. The first and second layers are contacted to each other. The first layer contains a substance that transports holes easily and a substance with an electron accepting property. The second layer contains a substance that transports electrons easily and a substance with an electron donating property. Molybdenum oxide is used as the substance with the electron accepting property.

#### 12 Claims, 11 Drawing Sheets

